

**Question -1 Write the following**

- (i) List and explain features of python. **7 Marks**
- (ii) What is the difference between C-Java-Python. **7 Marks**

**OR**

- (i) List and Explain inbuilt data types in Python. **7 Marks**
- (ii) What is control statement in python? Explain if-else, pass, assert and break. **7 Marks**

**Question-2 Write the following**

- (i) What is Function in python? Difference between function and method. **7 Marks**
- (ii) What is a function decorators in python? Explain it with example. **7 Marks**

**OR**

- (i) How can we create array in python? Explain its all methods. **7 Marks**
- (ii) How to create dictionary in python with any 3 methods? How can we convert list into dictionary with example. **7 Marks**

**Question-3 Write the following**

- (i) What is inheritance in python? Explain types of inheritance with example. **7 Marks**
- (ii) How do we create a class in python? Explain static method and class method in detail. **7 Marks**

**OR**

- (i) Define Constructor in python. Explain Method overriding and method overloading. **7 Marks**
- (ii) Define polymorphism. Explain duck typing philosophy of python. **7 Marks**

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**Question-4 Write the following**

- (i) What do you mean exception handling in python? Explain any three types of exception with example. **7 Marks**
- (ii) Define operating system interface. Explain following function. **7 Marks**
- a) getcwd()
  - b) uname()
  - c) listdir()
  - d) remove()
  - e) rename()

**OR**

- (i) How to connect MYSQL database in python? Define how to delete rows from a table. **7 Marks**
- (ii) Explain environments and packages. **7 Marks**

**Question-5 Attempt any seven out of twelve.**

**14 Marks**

1. In python, single line comments start with a \_\_\_\_\_ symbol.  
A) # B) \*  
C) // D) (a) and (c) both
2. The return keyword is to exit a function and return a value.(True/False)
3. What will be the output of the following python function?  
len(["hello",5,7,3])  
A) error B) 8  
C) 3 D) 4
4. "fun" keyword is used for function declaration in python? (True/False)
5. Which keyword is used for constructor declaration?  
A) \_\_init\_\_ B) init  
C) \_\_constructor\_\_ D) none
6. PIP stands for \_\_\_\_\_

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7. What will be the output of the following python function?

```
i=10
j=7
assert i>j, 'j=i+j'
print(j)
```

- A) 7  
B) 10  
C) 17  
D) type error

8. Minus (-) arithmetic operator cannot be used with string in python?(True/False)

9. Which of the following is the use of the function id() in python?

- A) Every object does not have a unique id in python  
B) the id function in python returns the identity of the object  
C) (a) and (b) both  
D) None

10. List, tuple are the \_\_\_\_\_ of data types.

- A) Sequence types  
B) Binary types  
C) Boolean Types  
D) None

11. Is the following python code is correct? (True/False)

```
class A:
    def __init__(self, b):
        self.b=b
    def display():
        Print(self.b)
Obj=A("hello")
Obj.display()
```

12. What will code of python this return?

```
x=[1,2,3,4]
y=x
y[0]=100
Print(x)
```

- A) [1,2,3,4]  
B) [100,1,2,3,4]  
C) [100,2,3,4]  
D) None

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